STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: /0/8/0, 063A

Source: /FW16,

Date Processed by STIC: 3/17/06

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY
FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO **REDUCE** ERRORED SEQUENCE LISTINGS, **PLEASE** USE THE **CHECKER VERSION 4.4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
        http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (**<http://www.uspto.gov/ebc/efs/downloads/documents.htm>** , **EFS Submission User Manual** - ePAVE)
2. **U.S. Postal Service:** Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. **Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):**
   U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

Raw Sequence Listing Error Summary

ERROR DETECTED   **SUGGESTED CORRECTION**   SERIAL NUMBER: *10/810,063A*

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1____Wrapped Nucleics   The number/text at the end of each line "wrapped" down to the next line. This may occur if your file
     Wrapped Aminos   was retrieved in a word processor **after** creating it. Please adjust your right margin to .3; this will
                        prevent "wrapping."

2____Invalid Line Length   The rules require that a line **not exceed** 72 characters in length. This includes white spaces.

3____Misaligned Amino   The numbering under each 5th amino acid is misaligned. Do **not** use tab codes between numbers;
     Numbering   use **space characters**, instead.

4____Non-ASCII   The submitted file was **not** saved in ASCII(DOS) text, as **required** by the Sequence Rules. **Please
                        ensure your subsequent submission is saved in ASCII text.**

5____Variable Length   Sequence(s)____contain n's or Xaa's representing more than one residue. **Per Sequence Rules,
                        each n or Xaa can only represent a single residue.** Please present the **maximum** number of each
                        residue having variable length and indicate in the <220>-<223> section that some may be missing.

6____PatentIn 2.0   A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid
     "bug"   sequences(s)_____. Normally, PatentIn would automatically generate this section from the
                        previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to
                        the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for
                        Artificial or Unknown sequences.**

7____Skipped Sequences Sequence(s) _____ missing. If intentional, please insert the following lines for **each** skipped sequence:
     (OLD RULES)   (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
                        (i)   SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
                        (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
                        This sequence is intentionally skipped
                        Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to **include** the skipped sequences.

8____Skipped Sequences Sequence(s) _____ missing. If **intentional**, please insert the following lines for **each** skipped sequence.
     (NEW RULES)   <210> sequence id number
                        <400> sequence id number
                        000

9____Use of n's or Xaa's   Use of n's and/or Xaa's have been detected in the Sequence Listing.
     (NEW RULES)   Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
                        In <220> to <223> section, please explain location of **n** or **Xaa**, and which residue **n** or **Xaa** represents.

10____Invalid <213>   Per 1.823 of Sequence Rules, the only **valid** <213> responses are: Unknown, Artificial Sequence, or
      Response   scientific name (Genus/species). <220>-<223> section is **required** when <213> response is Unknown or
                        is Artificial Sequence. (see item 11 below)

11____Use of <220>   Sequence(s) ___ missing the <220> "Feature" and associated numeric identifiers and responses. Use
                        of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown."
                        Please explain source of genetic material in <220> to <223> section or use "chemically synthesized" as
     ___)   explanation. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32), also Sec. 1.823 of
                        Sequence Rules

12____PatentIn 2.0   Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file,
      "bug"   resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence
                        listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

13____ Misuse of n/Xaa   "n" can **only** represent a single <u>nucleotide</u>; "Xaa" can **only** represent a single <u>amino acid</u>

AMC – STIC Systems Branch – 03/02/06

IFW16

```
 3 <110> APPLICANT: WOLD, WILLIAM
 4        TOLLEFSON, ANN
 6 <120> TITLE OF INVENTION: ADENOVIRUS REPLICATION-COMPETENT VECTORS EXPRESSING
 7        TRAIL
 9 <130> FILE REFERENCE: INGN:106US
11 <140> CURRENT APPLICATION NUMBER: 10/810,063A
12 <141> CURRENT FILING DATE: 2004-03-26
14 <150> PRIOR APPLICATION NUMBER: 60/458,493
15 <151> PRIOR FILING DATE: 2003-03-28
17 <160> NUMBER OF SEQ ID NOS: 3
19 <170> SOFTWARE: PatentIn Ver. 2.1
21 <210> SEQ ID NO: 1
22 <211> LENGTH: 1769
23 <212> TYPE: DNA
24 <213> ORGANISM: Homo sapiens
26 <220> FEATURE:
27 <221> NAME/KEY: CDS
28 <222> LOCATION: (88)..(933)
30 <400> SEQUENCE: 1
31 cctcactgac tataaaagaa tagagaagga agggcttcag tgaccggctg cctggctgac 60
33 ttacagcagt cagactctga caggatc atg gct atg atg gag gtc cag ggg gga 114
34                                 Met Ala Met Met Glu Val Gln Gly Gly
35                                  1               5
37 ccc agc ctg gga cag acc tgc gtg ctg atc gtg atc ttc aca gtg ctc   162
38 Pro Ser Leu Gly Gln Thr Cys Val Leu Ile Val Ile Phe Thr Val Leu
39  10              15                  20                      25
41 ctg cag tct ctc tgt gtg gct gta act tac gtg tac ttt acc aac gag   210
42 Leu Gln Ser Leu Cys Val Ala Val Thr Tyr Val Tyr Phe Thr Asn Glu
43                  30                  35                  40
45 ctg aag cag atg cag gac aag tac tcc aaa agt ggc att gct tgt ttc   258
46 Leu Lys Gln Met Gln Asp Lys Tyr Ser Lys Ser Gly Ile Ala Cys Phe
47              45                  50                  55
49 tta aaa gaa gat gac agt tat tgg gac ccc aat gac gaa gag agt atg   306
50 Leu Lys Glu Asp Asp Ser Tyr Trp Asp Pro Asn Asp Glu Glu Ser Met
51          60                  65                  70
53 aac agc ccc tgc tgg caa gtc aag tgg caa ctc cgt cag ctc gtt aga   354
54 Asn Ser Pro Cys Trp Gln Val Lys Trp Gln Leu Arg Gln Leu Val Arg
55          75                  80                  85
57 aag atg att ttg aga acc tct gag gaa acc att tct aca gtt caa gaa   402
58 Lys Met Ile Leu Arg Thr Ser Glu Glu Thr Ile Ser Thr Val Gln Glu
59  90              95                  100                     105
61 aag caa caa aat att tct ccc cta gtg aga gaa aga ggt cct cag aga   450
62 Lys Gln Gln Asn Ile Ser Pro Leu Val Arg Glu Arg Gly Pro Gln Arg
```

Does Not Comply
Corrected Diskette Needed
P3

RAW SEQUENCE LISTING   DATE: 03/17/2006
PATENT APPLICATION: US/10/810,063A   TIME: 14:03:30

Input Set : D:\INGN106.APP.txt
Output Set: N:\CRF4\03172006\J810063A.raw

```
63                  110                 115                 120
65 gta gca gct cac ata act ggg acc aga gga aga agc aac aca ttg tct    498
66 Val Ala Ala His Ile Thr Gly Thr Arg Gly Arg Ser Asn Thr Leu Ser
67                  125                 130                 135
69 tct cca aac tcc aag aat gaa aag gct ctg ggc cgc aaa ata aac tcc    546
70 Ser Pro Asn Ser Lys Asn Glu Lys Ala Leu Gly Arg Lys Ile Asn Ser
71           140                 145                 150
73 tgg gaa tca tca agg agt ggg cat tca ttc ctg agc aac ttg cac ttg    594
74 Trp Glu Ser Ser Arg Ser Gly His Ser Phe Leu Ser Asn Leu His Leu
75      155                 160                 165
77 agg aat ggt gaa ctg gtc atc cat gaa aaa ggg ttt tac tac atc tat    642
78 Arg Asn Gly Glu Leu Val Ile His Glu Lys Gly Phe Tyr Tyr Ile Tyr
79 170                 175                 180                 185
81 tcc caa aca tac ttt cga ttt cag gag gaa ata aaa gaa aac aca aag    690
82 Ser Gln Thr Tyr Phe Arg Phe Gln Glu Glu Ile Lys Glu Asn Thr Lys
83                  190                 195                 200
85 aac gac aaa caa atg gtc caa tat att tac aaa tac aca agt tat cct    738
86 Asn Asp Lys Gln Met Val Gln Tyr Ile Tyr Lys Tyr Thr Ser Tyr Pro
87                  205                 210                 215
89 gac cct ata ttg ttg atg aaa agt gct aga aat agt tgt tgg tct aaa    786
90 Asp Pro Ile Leu Leu Met Lys Ser Ala Arg Asn Ser Cys Trp Ser Lys
91           220                 225                 230
93 gat gca gaa tat gga ctc tat tcc atc tat caa ggg gga ata ttt gag    834
94 Asp Ala Glu Tyr Gly Leu Tyr Ser Ile Tyr Gln Gly Gly Ile Phe Glu
95      235                 240                 245
97 ctt aag gaa aat gac aga att ttt gtt tct gta aca aat gag cac ttg    882
98 Leu Lys Glu Asn Asp Arg Ile Phe Val Ser Val Thr Asn Glu His Leu
99 250                 255                 260                 265
101 ata gac atg gac cat gaa gcc agt ttt ttc ggg gcc ttt tta gtt ggc   930
102 Ile Asp Met Asp His Glu Ala Ser Phe Phe Gly Ala Phe Leu Val Gly
103                 270                 275                 280
105 taa ctgacctgga aagaaaaagc aataacctca aagtgactat tcagttttca         983
108 ggatgataca ctatgaagat gtttcaaaaa atctgaccaa aacaaacaaa cagaaaacag 1043
110 aaaacaaaaa aacctctatg caatctgagt agagcagcca caaccaaaaa attctacaac 1103
112 acacactgtt ctgaaagtga ctcacttatc ccaagaaaat gaaattgctg aaagatcttt 1163
114 caggactcta cctcatatca gtttgctagc agaaatctag aagactgtca gcttccaaac 1223
116 attaatgcaa tggttaacat cttctgtctt tataatctac tccttgtaaa gactgtagaa 1283
118 gaaagcgcaa caatccatct ctcaagtagt gtatcacagt agtagcctcc aggtttcctt 1343
120 aagggacaac atccttaagt caaaagagag aagaggcacc actaaaagat cgcagtttgc 1403
122 ctggtgcagt ggctcacacc tgtaatccca acattttggg aacccaggt gggtagatca  1463
124 cgagatcaag agatcaagac catagtgacc aacatagtga aaccccatct ctactgaaag 1523
126 tgcaaaaatt agctgggtgt gttggcacat gcctgtagtc ccagctactt gagaggctga 1583
128 ggcaggagaa tcgtttgaac ccgggaggca gaggttgcag tgtggtgaga tcatgccact 1643
130 acactccagc ctggcgacag agcgagactt ggtttcaaaa aaaaaaaaa aaaaaaactt 1703
132 cagtaagtac gtgttatttt tttcaataaa attctattac agtatgtcaa aaaaaaaaaa 1763
134 aaaaaa                                                            1769
137 <210> SEQ ID NO: 2
138 <211> LENGTH: 281
139 <212> TYPE: PRT
```

RAW SEQUENCE LISTING   DATE: 03/17/2006
PATENT APPLICATION: US/10/810,063A   TIME: 14:03:30

Input Set : D:\INGN106.APP.txt
Output Set: N:\CRF4\03172006\J810063A.raw

140 <213> ORGANISM: Homo sapiens
142 <400> SEQUENCE: 2
143 Met Ala Met Met Glu Val Gln Gly Gly Pro Ser Leu Gly Gln Thr Cys
144 1   5   10   15
145 Val Leu Ile Val Ile Phe Thr Val Leu Leu Gln Ser Leu Cys Val Ala
146   20   25   30
147 Val Thr Tyr Val Tyr Phe Thr Asn Glu Leu Lys Gln Met Gln Asp Lys
148   35   40   45
149 Tyr Ser Lys Ser Gly Ile Ala Cys Phe Leu Lys Glu Asp Asp Ser Tyr
150   50   55   60
151 Trp Asp Pro Asn Asp Glu Glu Ser Met Asn Ser Pro Cys Trp Gln Val
152 65   70   75   80
153 Lys Trp Gln Leu Arg Gln Leu Val Arg Lys Met Ile Leu Arg Thr Ser
154   85   90   95
155 Glu Glu Thr Ile Ser Thr Val Gln Glu Lys Gln Gln Asn Ile Ser Pro
156   100   105   110
157 Leu Val Arg Glu Arg Gly Pro Gln Arg Val Ala Ala His Ile Thr Gly
158   115   120   125
159 Thr Arg Gly Arg Ser Asn Thr Leu Ser Ser Pro Asn Ser Lys Asn Glu
160   130   135   140
161 Lys Ala Leu Gly Arg Lys Ile Asn Ser Trp Glu Ser Ser Arg Ser Gly
162 145   150   155   160
163 His Ser Phe Leu Ser Asn Leu His Leu Arg Asn Gly Glu Leu Val Ile
164   165   170   175
165 His Glu Lys Gly Phe Tyr Tyr Ile Tyr Ser Gln Thr Tyr Phe Arg Phe
166   180   185   190
167 Gln Glu Glu Ile Lys Glu Asn Thr Lys Asn Asp Lys Gln Met Val Gln
168   195   200   205
169 Tyr Ile Tyr Lys Tyr Thr Ser Tyr Pro Asp Pro Ile Leu Leu Met Lys
170   210   215   220
171 Ser Ala Arg Asn Ser Cys Trp Ser Lys Asp Ala Glu Tyr Gly Leu Tyr
172 225   230   235   240
173 Ser Ile Tyr Gln Gly Gly Ile Phe Glu Leu Lys Glu Asn Asp Arg Ile
174   245   250   255
175 Phe Val Ser Val Thr Asn Glu His Leu Ile Asp Met Asp His Glu Ala
176   260   265   270
177 Ser Phe Phe Gly Ala Phe Leu Val Gly
178   275   280
182 <210> SEQ ID NO: 3
183 <211> LENGTH: 14
184 <212> TYPE: DNA
185 <213> ORGANISM: Artificial Sequence
187 <220> FEATURE:
188 <221> NAME/KEY: modified_base
189 <222> LOCATION: (3)..(12)
190 <223> OTHER INFORMATION: n = a, c, g and/or t/u
192 <400> SEQUENCE: 3
W--> 193 ctngaanntt cnag   14

needs explanation
(see item 11 on Error Summary Sheet)

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 03/17/2006
PATENT APPLICATION: US/10/810,063A   TIME: 14:03:31

Input Set : **D:\INGN106.APP.txt**
Output Set: **N:\CRF4\03172006\J810063A.raw**

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; N Pos. 3,7,8,12

VERIFICATION SUMMARY   DATE: 03/17/2006
PATENT APPLICATION: US/10/810,063A   TIME: 14:03:31

Input Set : **D:\INGN106.APP.txt**
Output Set: **N:\CRF4\03172006\J810063A.raw**

L:193 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0